

ABSTRACT

Provided are an electrolyte, an anode and a battery capable of improving the efficiency of precipitation and dissolution of Li, and cycle characteristics. A metal sheet (12A) which is made of Cu and does not contain Li is used as the anode (12) to deposit Li metal. An aromatic compound having an -OX group (X is H or alkali metal) such as catechol is added to an electrolytic solution (16) and a precipitation film (12C) is deposited on the surface thereof with Li metal in the initial charge. The precipitation film (12C) prevents a dendrite growth of Li and a reaction between Li and the electrolytic solution (16).